

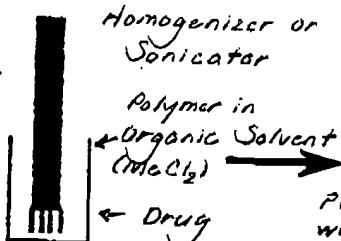
First Emulsion
(water-in-oil)

Homogenization
speed
time
temperature

Protein Solution
Drug volume or mass
concentration

Polymer
Solution

Organic solvent MeCl₂ volume
polymer weight
polymer MW

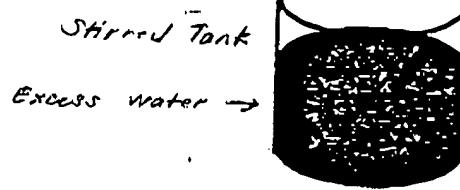


Emulsification
Conditions

Stir speed
time

Emulsification

Solution PVA MW
PVA weight %
water volume
MeCl₂ volume
Organic solvent
temperature

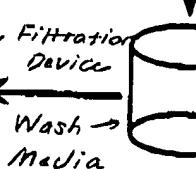


Hardening
Bath

Water volume
time
Temperature

Drying

Lyophilization



Difiltration

wash volume
wash medium
Temperature

Fill microspheres
in vials

Release
Studies

Drying System

Figure 3